

Air Force Materiel Command

Developing, Fielding, and Sustaining America's Aerospace



Enhanced Technical Information Management System (ETIMS) Demonstration 13 May 03

U.S. AIR FORCE

MSG/M

Integrity - Service - Excellence



Overview



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- Decisions made at GOSC
- The Bottom Line
- ETIMS To-Be Architecture
- Proposed ETIMS Capabilities
- Proposed Migration Strategy
- Tech Data Near-Term Schedule
- Demo



Flight Line



Hangar/Depot Repair



Single Managers



In Flight



Fueling



TO Distribution Office



Decisions Made at GOSG



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- **ETIMS approach approved as the AF TO solution**
- **JCALs remains System of Record until ETIMS assumes responsibility**
- **Interim use of CITOMS (as-is) until functionality subsumed by ETIMS, provided:**
 - **No new development/integration**
 - **No impact to field users**
 - **FY03 - FY05 funding requirements identified**
 - **Deployment limited to WR-ALC and OO-ALC**
 - **Signed MOA by**
 - **ESC/CC**
 - **WR-ALC/CC**
 - **HQ AFMC/EN**
 - **HQ USAF/ILM**
 - **AFSAC/CC**
 - **OO-ALC/CV**
 - **AFSPC**
 - **MSG/CD/MM**
- **Brief ETIMS and funding disconnect at CORONA, Jun 03**



The Bottom Line

Enhanced Technical Information Management System (ETIMS)



- **ETIMS will be capable of handling**
 - Tech orders (TOs)
 - Flight manuals (FMs)
 - Engineering drawings (potential future capability)
- **Delivering enterprise solution in partnership with the functional customer**
- **11 months after contract award - ETIMS initial fielded capability (Spiral 1)**
- **38 months after contract award - System of Record transition from JCALS to ETIMS**

**Assumes
Full Funding**



Proposed ETIMS Capabilities:

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Timeline to Delivery

- Central point of access GUI
- Order TO (view, requisition, subscription, and distribution)
- TO Change Request and approval
- Disconnected operations
- Electronic repository
- TO index

- Manage TO development

- Manage paper TOs
- ALC TO production
- Complete FMS

- OCONUS operation

- Classified system
- Nuclear TOs
- Commercial TOs
- Logistics data system integration

12 months

12 months

12 months

12 months

12 months

12 months

Spiral 1

Spiral 2

Spiral 3

Spiral 4

Spiral 5

Sustainment manhours/yr

11 MOS

6 MOS

6 MOS

6 MOS

12 MOS

ETIMS becomes System of Record

Detailed Spirals 2 - 5 capabilities being refined with Functional Requirements IPT

FY03

FY04

FY05

FY06

FY07

FY08

Automates Account Management
Reduces time from 12 hrs to 15 min, saves 33,000 manhours/yr

Users able to work with electronic TOs

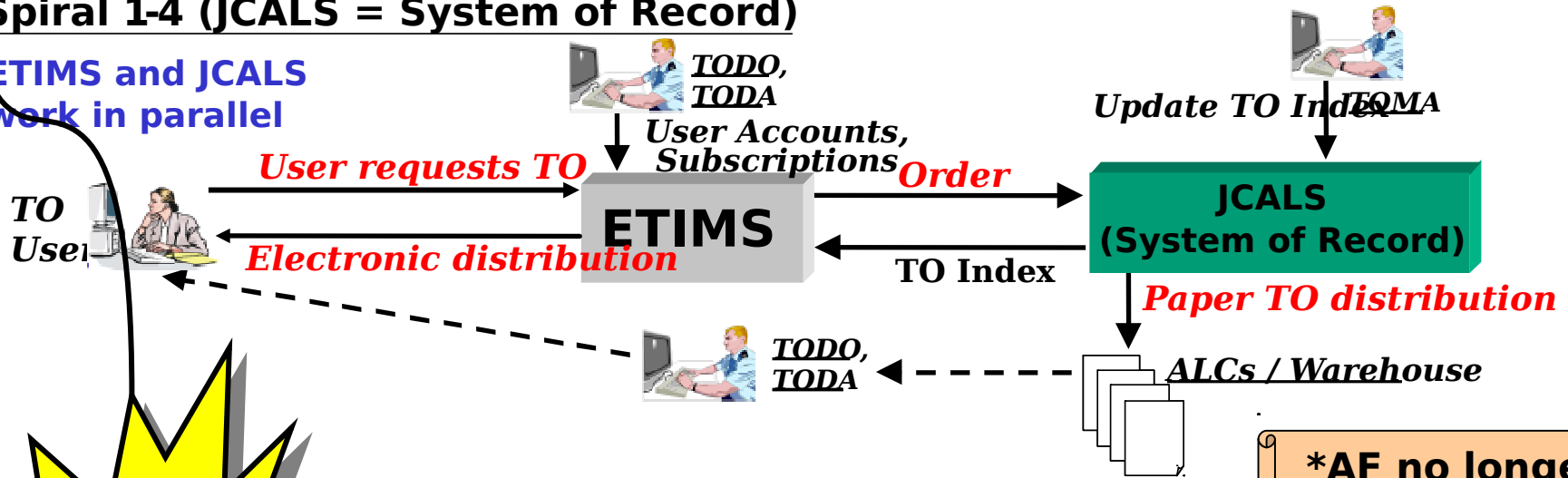


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Proposed Migration Strategy

Spiral 1-4 (JCALS = System of Record)

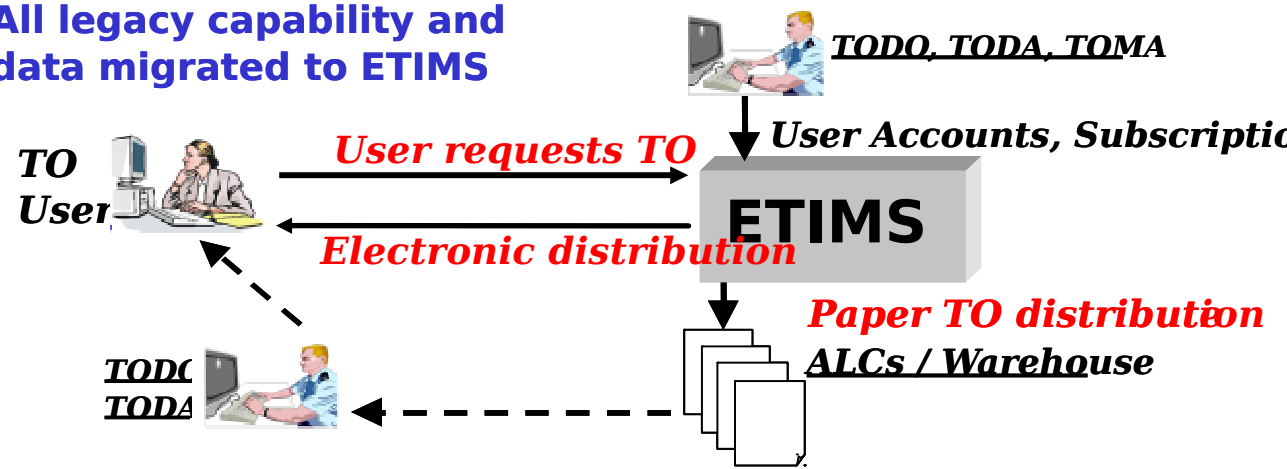
ETIMS and JCALS work in parallel



*AF no longer uses JCALS

Spiral 5 (ETIMS = System of Record)*

All legacy capability and data migrated to ETIMS



No Manual Dual Entry!



Tech Data Near-Term Schedule



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Event	2003					
	Mar	Apr	May	Jun	Jul	Aug
Bidders Conference	▲ 18 Mar					
One-on-One Discussions	▲ 19-20 Mar					
Release CTS RFP	▲ 28 Mar					
Receive CTS Proposals		▲ 11 Apr				
Complete Proposal Evaluation		▲ 25 Apr				
CTS Task Order Award			▲ 2 May			
GO/SES Tech Data Steering Group					△ 2 Jul	

CTS BPA Holders
EDS
Integrgraph
Northrop-Grumman
SAIC



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**Tech Data
Systems Division Demo
6 May 03**

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Overview



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- **Concept Laboratory**
- **Proof of Concept**
- **Demo Process**
- **Demo Architecture**
- **Retail**
- **Wholesale**
- **JCALs**

\$

**Single
Managers**



**Maintenance
Actions**



Flight Line



Fueling



In Flight



**TO Distribution
Office**



Concept Laboratory



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Tech Data Lab at WPAFB using AFRL Logistics Technology Integration Environment (LOGTIE)



Facilities & Training

- Wireless Network
- AFCV Training

Purpose: ETIMS Risk Mitigation

Installed Systems

- AF Common Viewer
- JAPM
- AFSAC Web Site
- JCALS (x2) - (Not on enterprise)
- AFTOX Web Site
- Oracle

Environment for Verification and Customer Acceptance Testing

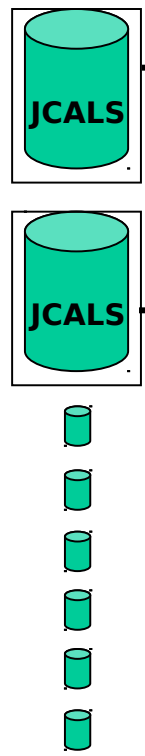


Proof of Concept Technical Architecture



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Sites

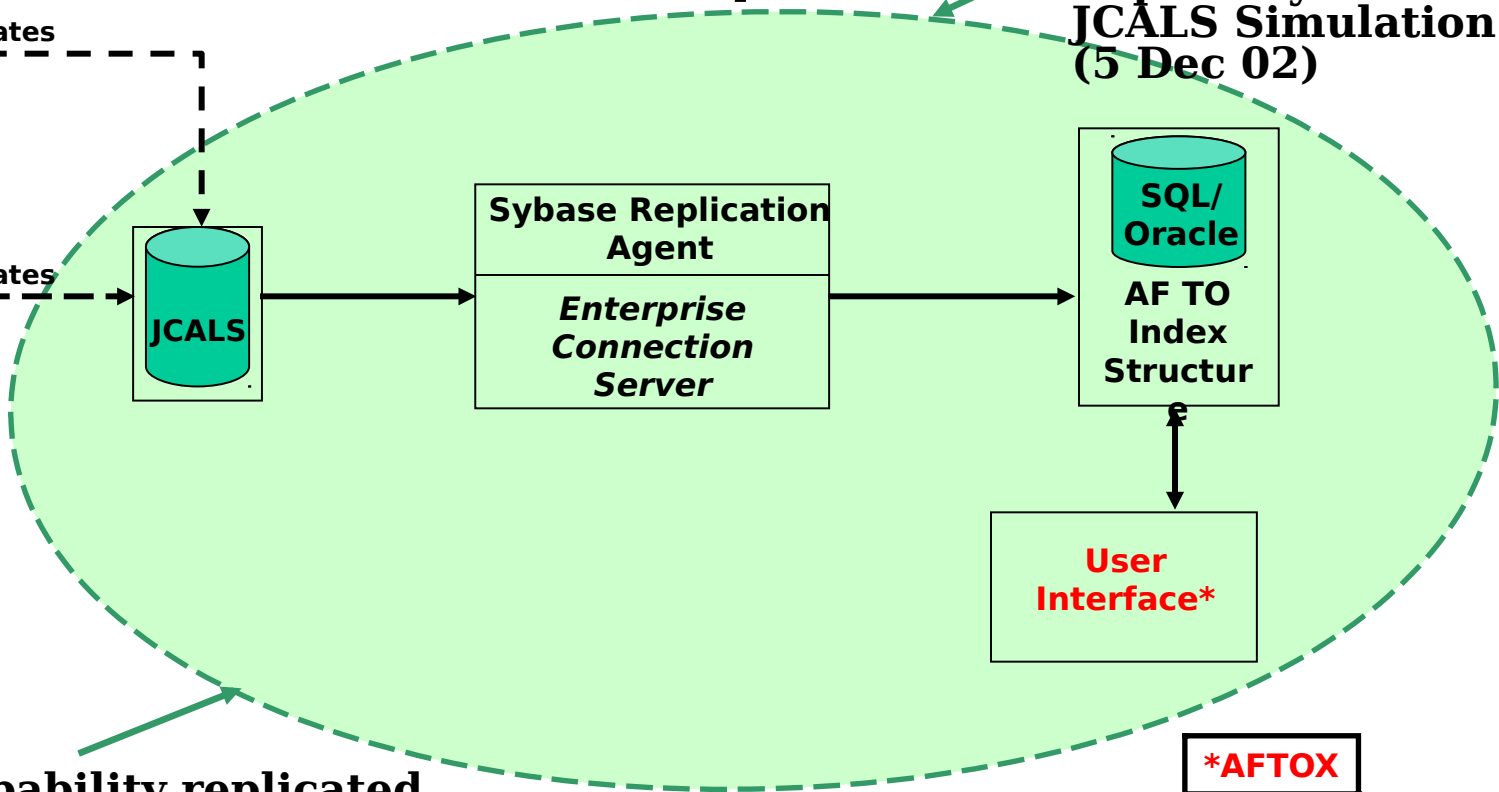


DB/
Updates

DB/
Updates

Concept Lab

Demonstrated
Capability with
JCALS Simulation
(5 Dec 02)



Capability replicated
in Concept Lab (16
Jan 03)

***AFTOX**

Technical migration approach validated



Demo Process



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Retail User

- **View TO Catalog Data**
- **Subscriptions/Notifications**
- **Air Force Common Viewer**
- **Create and Process AFTO 22**

Wholesale User

- **Inbox**
- **AFTO 22 Workflow**
- **Show Configuration Layer**



JCALs (Emulated)

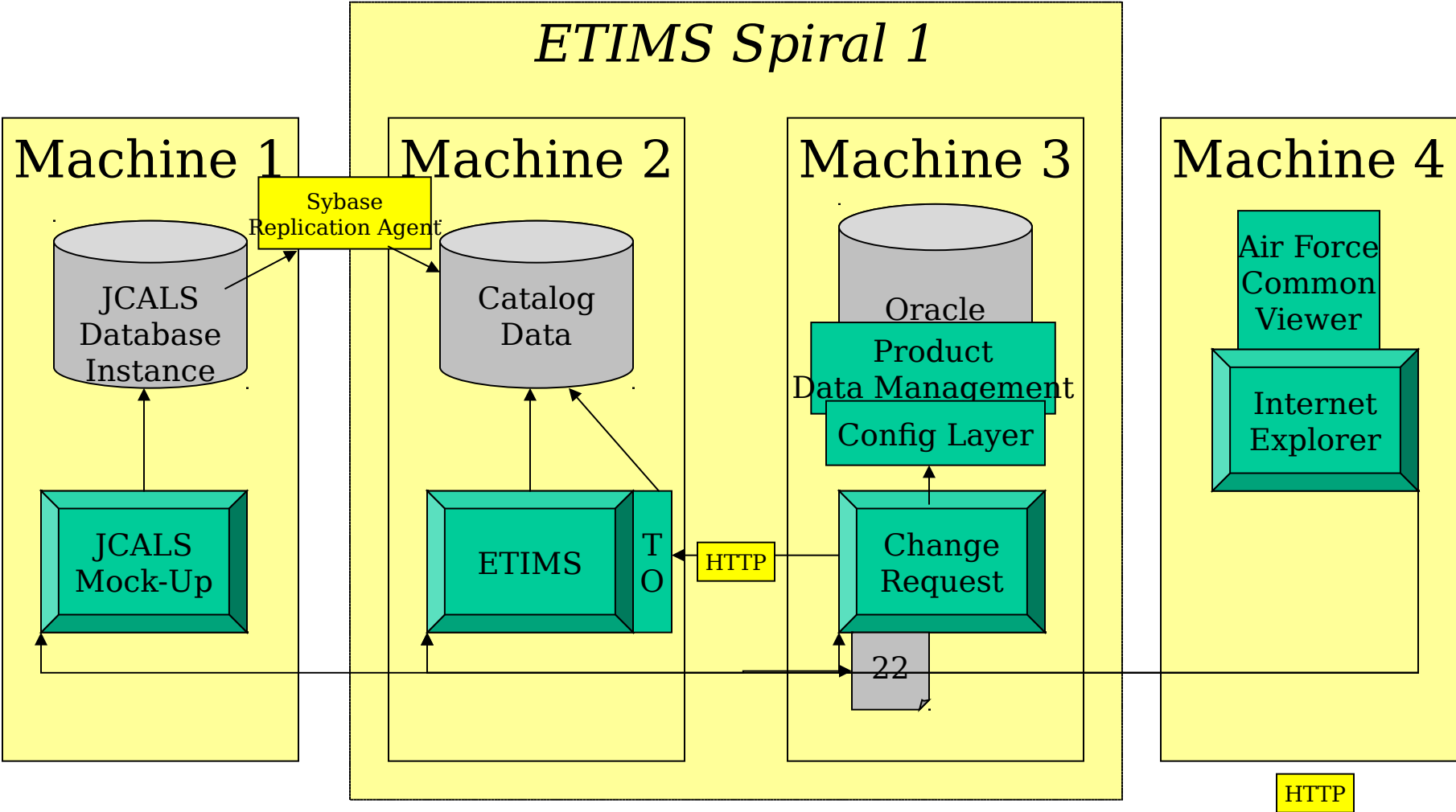
- **Integrated Catalog Data via SYBASE Replication**

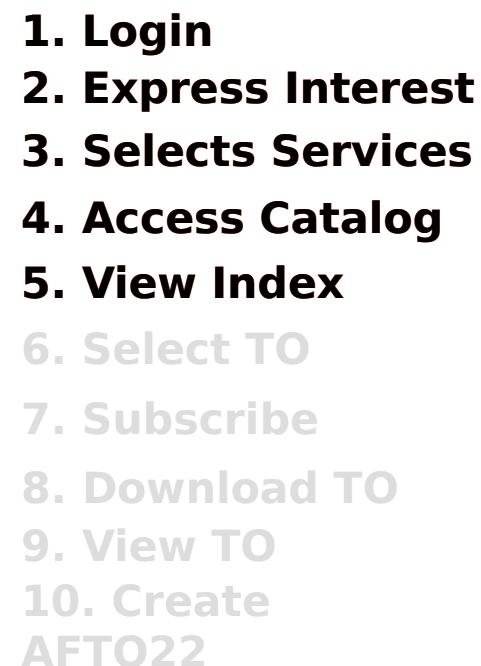


Demo Architecture



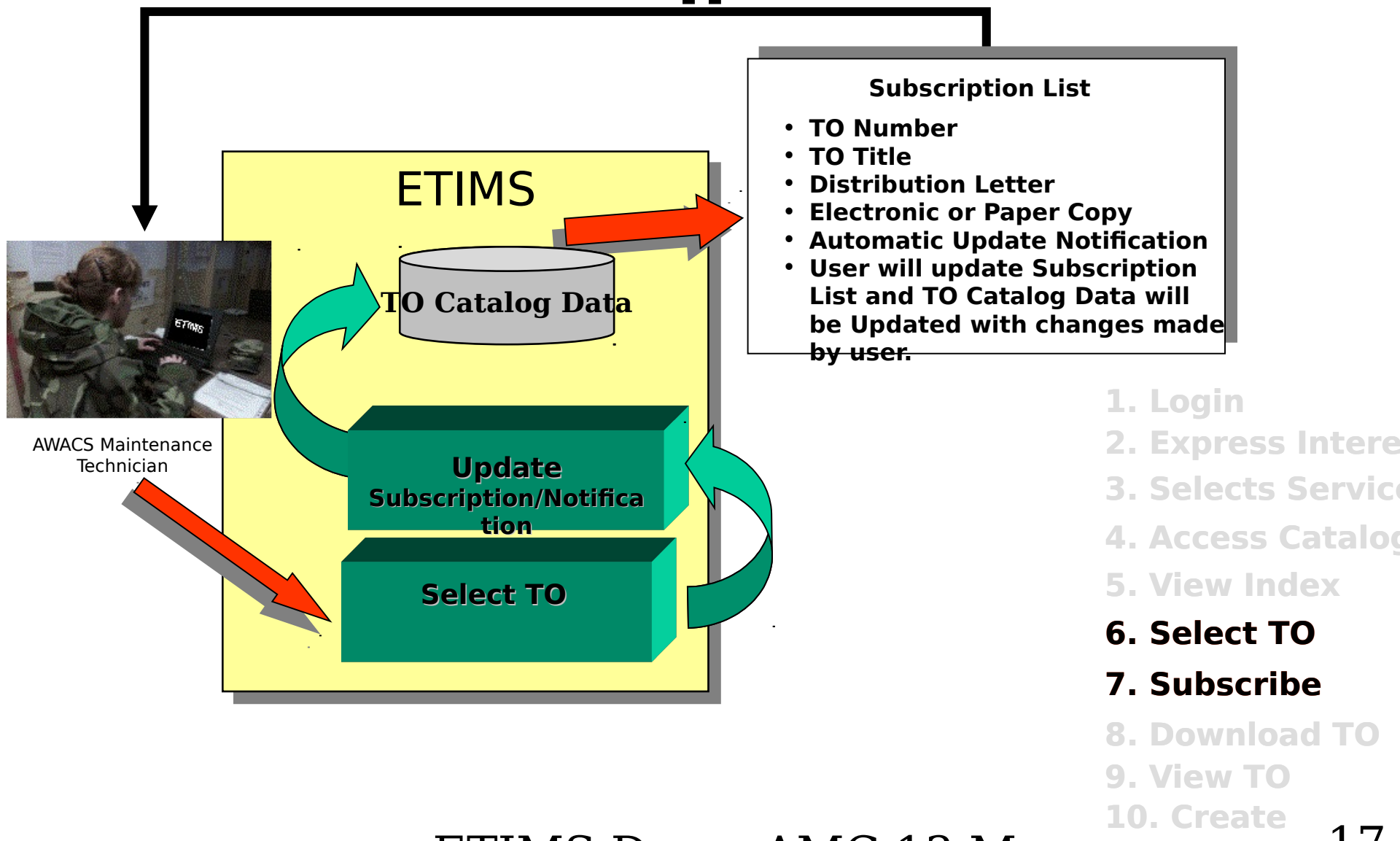
AFMC







Retail Subscription/Notification





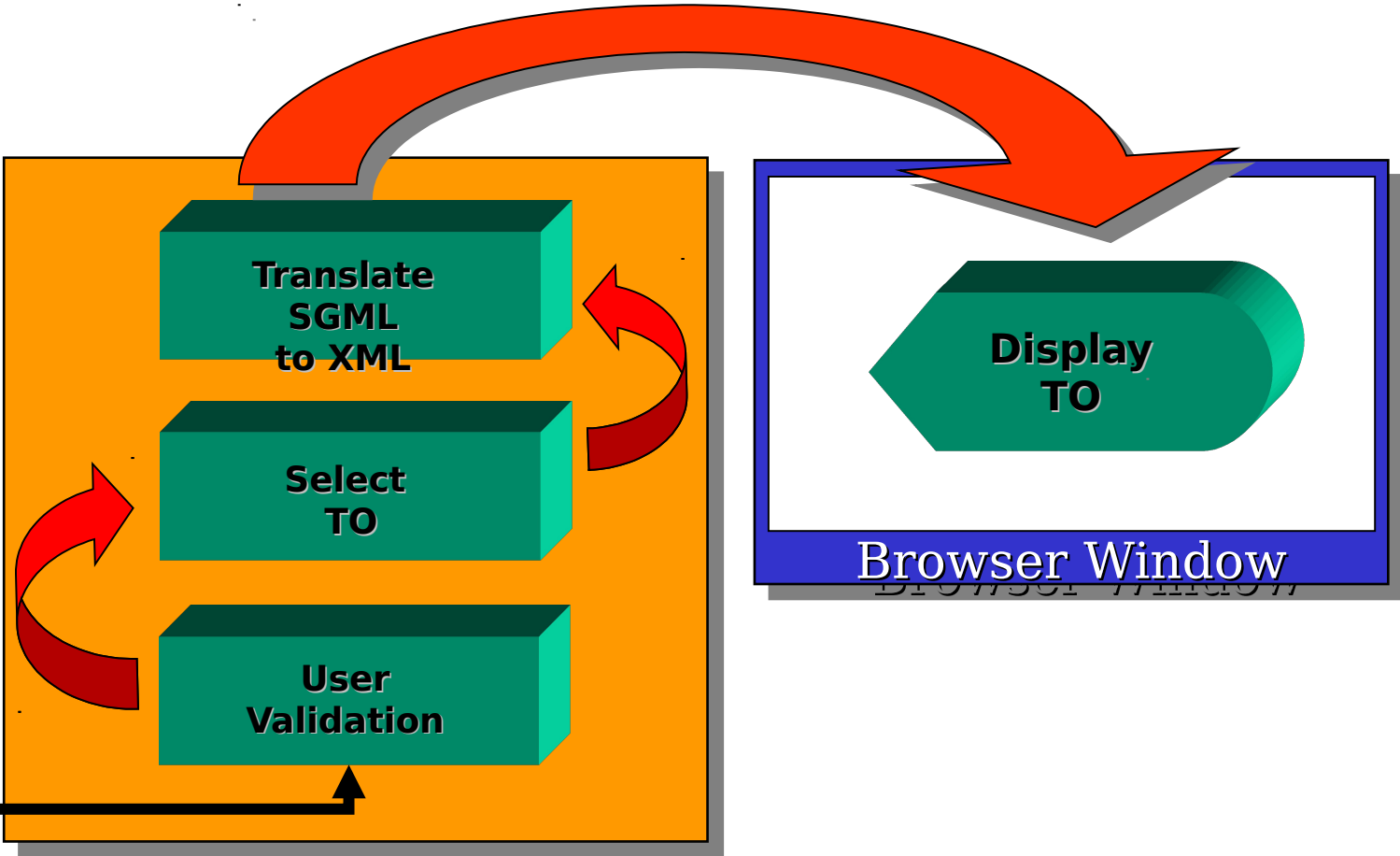
Air Force Common Viewer



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User





AFTO 22 Creation

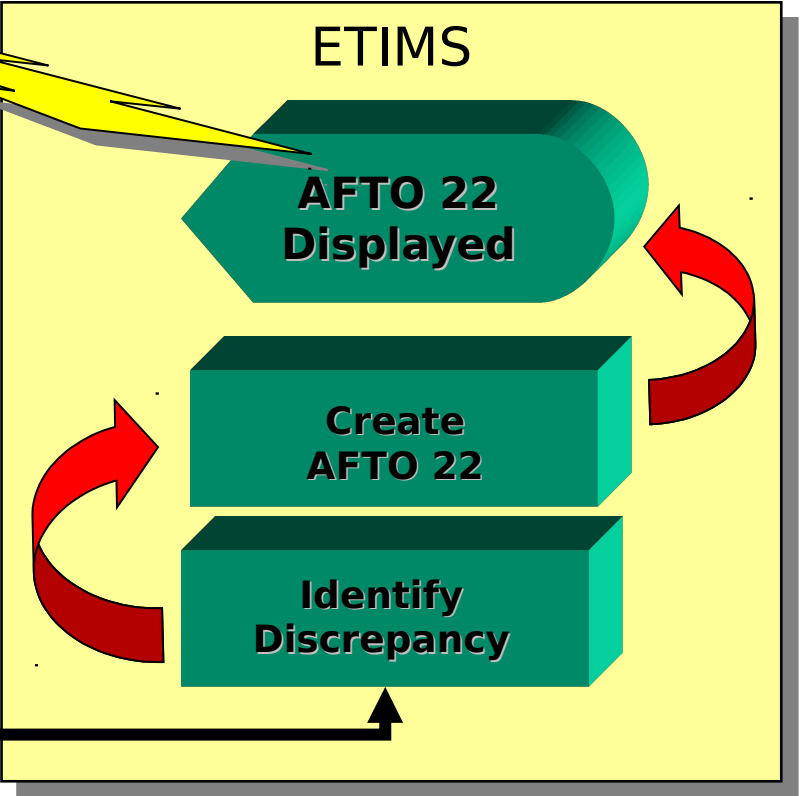


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Wing QA/PIM
Change
request in
box



AWACS Maintenance
Technician



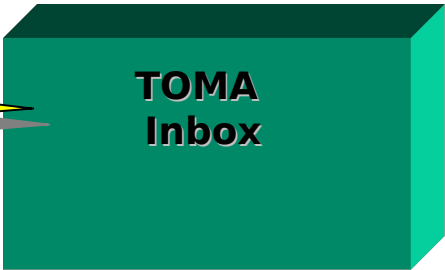
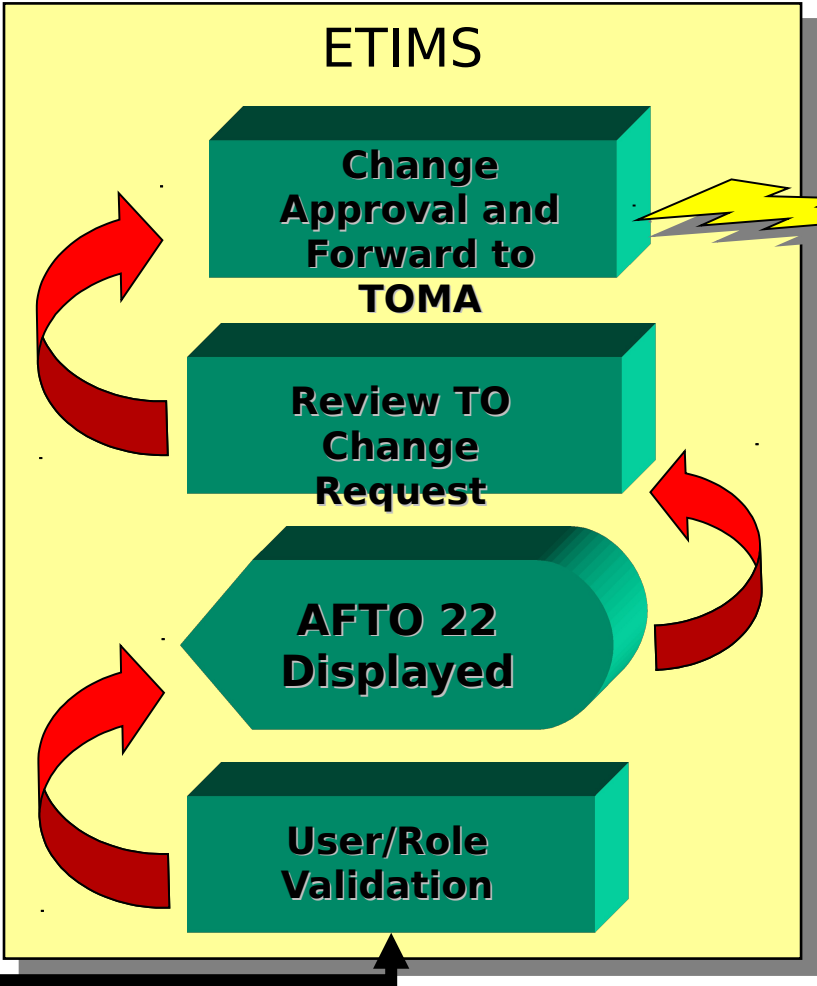
1. Login
2. Express Interest
3. Selects Service
4. Access Catalog
5. View Index
6. Select TO
7. Subscribe
8. Download TO
9. View TO
10. Create AFTO22



Wing Review Process



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- 1. Wing Level Review
- 2. Submit for TOMA Review



Wing QA (PIM)



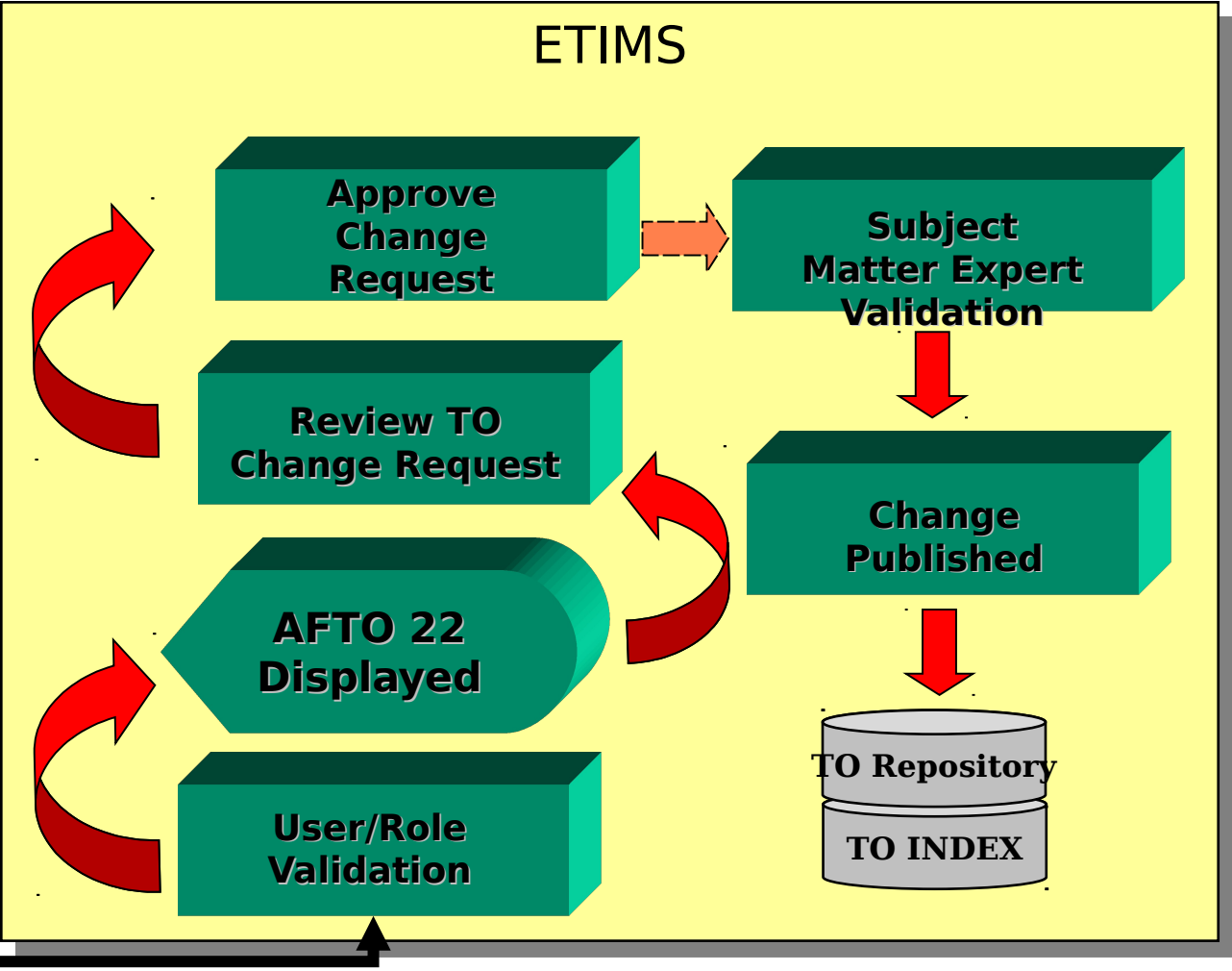
TOMA Inbox



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TOMA

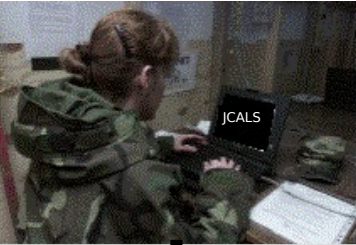




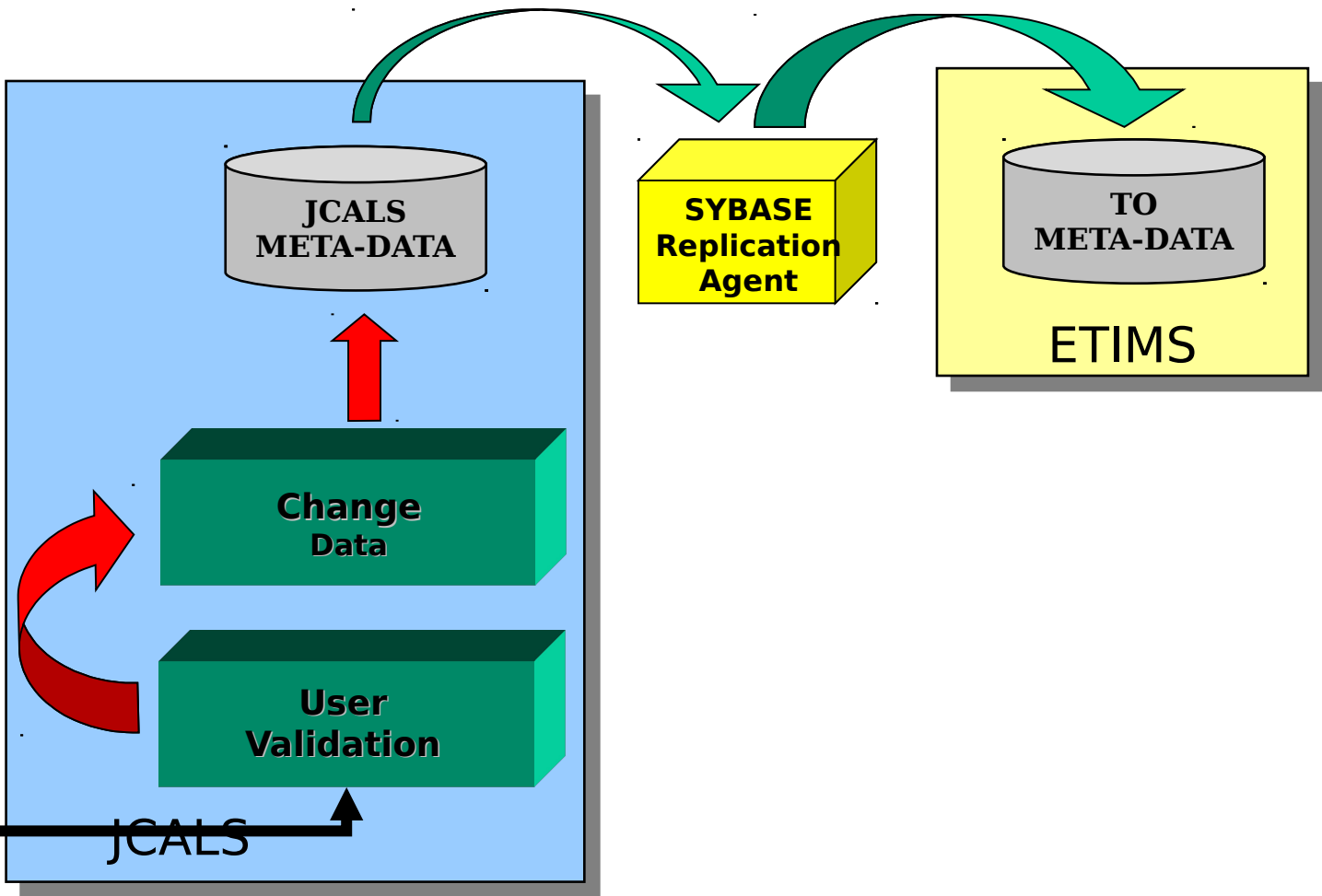
JCALs/ETIMS Synchronization



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TO
Manager

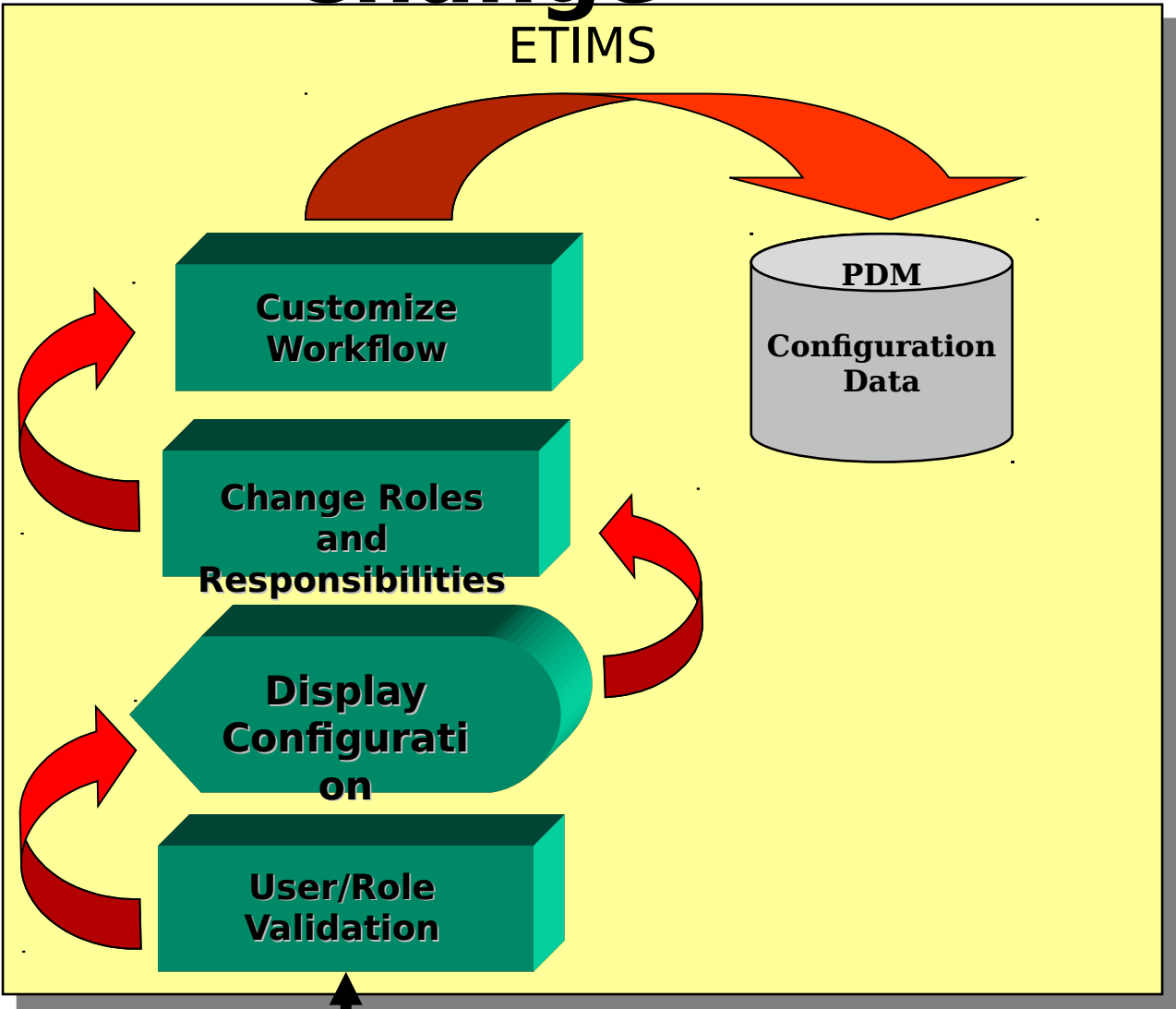




Workflow Configuration Change



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Single Manager



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Backup Charts



Notes: - Amounts do not include current system sustainment.



Funding (Millions of TY\$)



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Who Executes?		FY03	FY04	FY05	FY06	FY07	FY08	FY09	Total
MSG	ETIMS Requirement	8.932	21.844	24.333	20.372	17.664	15.893	14.966	124.004
ARMY	J CALS Sustainment (Ref PBD 704)		17.325	26.400	26.400				70.125
?	E-Tool Acq/Deployment		6.431	24.897	51.194	67.043	61.257	42.899	253.721
	Total Requirement	8.932	45.600	75.630	97.966	84.707	77.150	57.865	447.850
	Available	4.648	7.823	5.607	3.480	3.472	3.533	3.605	32.168
	Delta	-4.284	-37.777	-70.023	-94.486	-81.235	-73.617	-54.260	-415.682

Notes: - Amounts do not include current system sustainment.



Funding (Millions of TY\$)



AFMC

Who Executes?		FY03	FY04	FY05	FY06	FY07	FY08	FY09	Total
MSG	ETIMS Development	8.932	21.844	24.333	20.372	17.664	15.893	14.966	124.004
MSG	ETIMS Sustainment		3.274	4.448	5.006	17.664	15.893	14.966	61.251
ARMY	J CALS Sustainment (Ref PBD 704)		17.325	26.400	26.400				70.125
?	E-Tool Acq/Deployment		6.431	24.897	51.194	67.043	61.257	42.899	253.721
SPO/SM/ Lead Command	Data Digitization	27.778	28.355	28.343	28.385	28.346	28.360	28.372	197.939
	Total Requirement	36.710	77.229	108.421	131.357	130.717	121.403	101.203	707.040
	Available	32.426	30.507	28.281	26.188	26.149	26.221	26.303	196.075
	Delta	-4.284	-46.722	-80.140	-105.169	-104.568	-95.182	-74.900	-510.965

Notes: - Amounts do not include current system sustainment.



Funding (Millions of TY\$)



AFMC

Who Executes?		FY03	FY04	FY05	FY06	FY07	FY08	FY09	Total
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SPO/SM/ Lead Command	Data Digitization	27.778	28.355	28.343	28.385	28.346	28.360	28.372	197.939
MAJ COM	E-Tool Replacement	0.000	0.000	0.000	0.000	6.225	24.094	49.538	79.857
	Total Requirement	36.710	77.229	108.421	131.357	136.942	145.497	150.741	786.897
	Available	32.426	30.507	28.281	26.188	26.149	26.221	26.303	196.075
	Delta	-4.284	-46.722	-80.140	-105.169	-110.793	-119.276	-124.438	-590.822

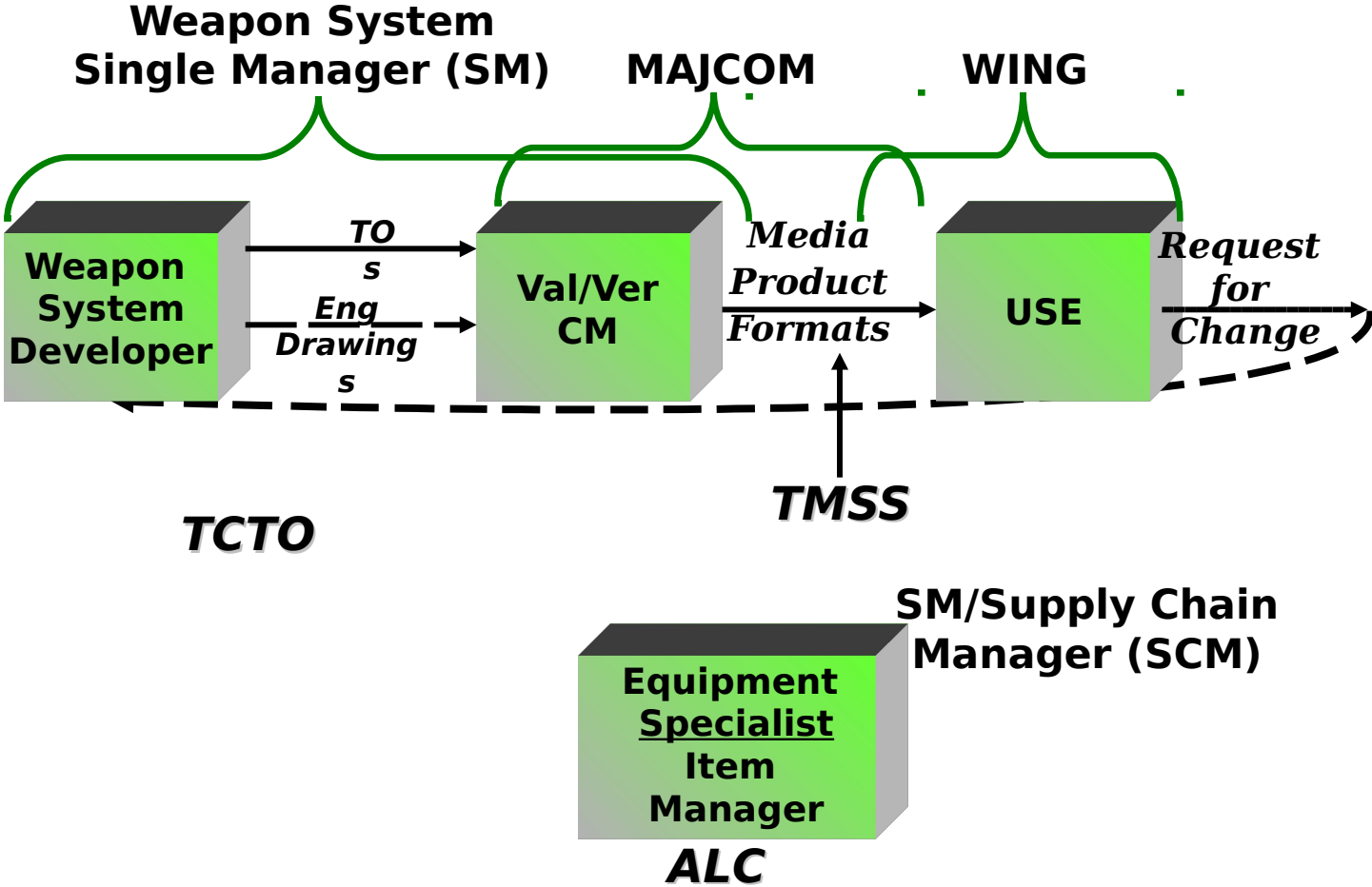
Notes: - Amounts do not include current system sustainment.



Tech Data Process: What We Must Support



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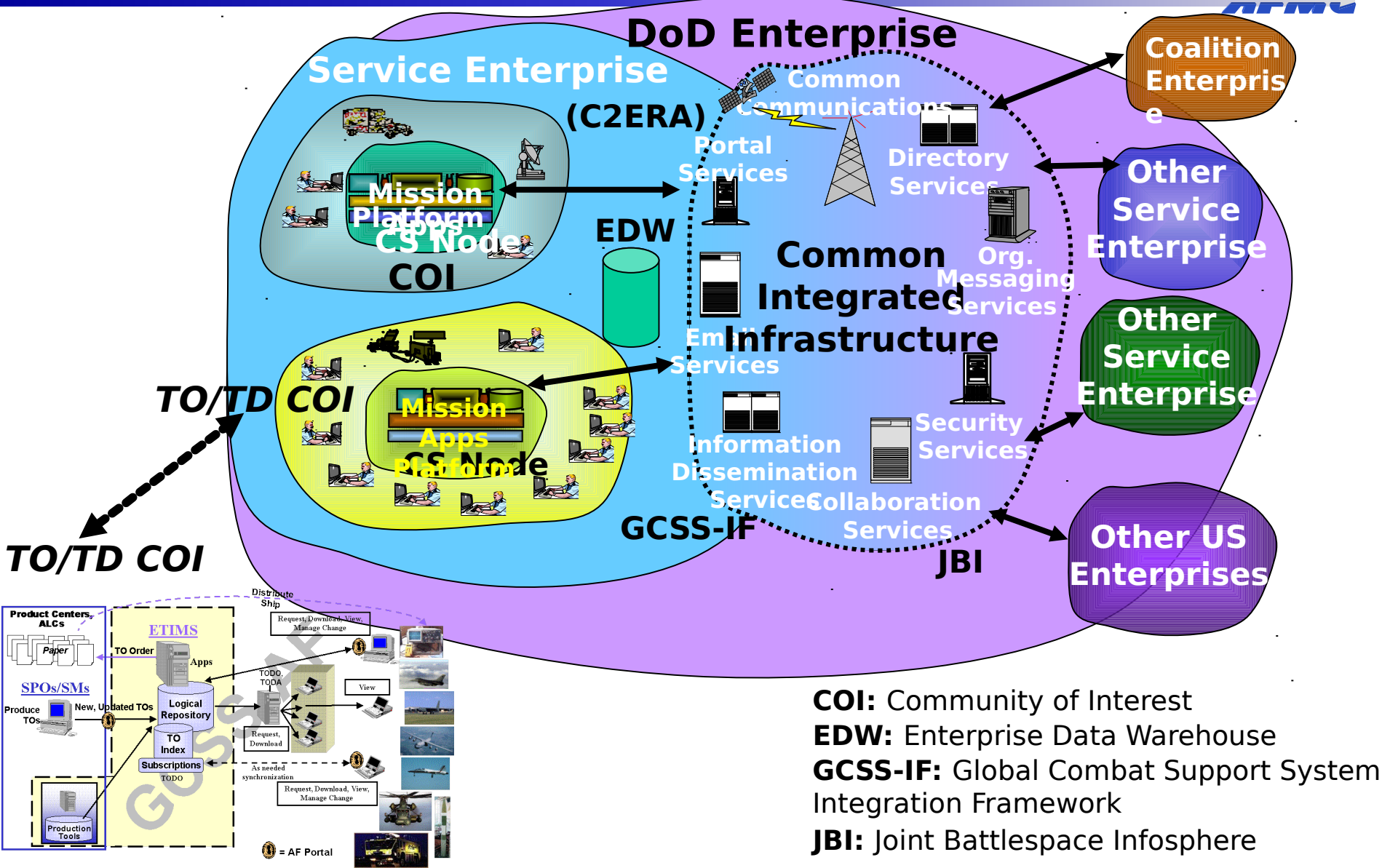


Streamlined and Electronic



C2 Enterprise Reference Architecture

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Architecture Objectives



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- **Flexible**

- Tailorable to desktop users, e-tool users, disconnected/deployed operations
- Role based: TO users, managers, developers, FMS
- Provides user friendly on-line TO access and management



- **Interoperable**

- Works with existing TO systems
- Expandable to external systems, e.g., maintenance systems or pilot mission planning tool

- **Scalable**

- Increase number of users and remote server sites
- Improve/enhance digital data capabilities

- **Leverage COTS tools**

- GCSS-AF provides robust enterprise services
- Product Data Management (PDM) tool provides document management and collaboration

Enterprise Solution focused on the Warfighter



Proposed ETIMS Capabilities: Spiral 1 Timeline



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- Central point of access GUI
- Order TO (view, requisition, subscription, and distribution)
- TO Change Request and approval
- Disconnected operations
- Electronic repository
- TO index

